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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,275	02/11/2002	Bjorn Eilertsen	033434-003	9430	
21839 75	90 12/23/2003	EXAMINER			
BURNS DOA	NE SWECKER & MA	HANSEN, COLBY M			
	A, VA 22313-1404	ART UNIT	PAPER NUMBER		
,			3682		

DATE MAILED: 12/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	pplication No.	- 	Applicant(s)	/		
•		1	10/049,275		EILERTSEN, BJC	ORN (
. Office Action Summary			xamin r		Art Unit	T Y		
		c	colby Hansen		3682			
	The MAILING DATE of this commu			sheet with the co	orrespondence ad	idress		
Period fo				IDE A MONTHY				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
	Responsive to communication(s) fil	ed on .						
•			tion is non-final					
•—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>2-6</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
<i>'</i>	5) Claim(s) is/are allowed.							
-	Claim(s) <u>2-6</u> is/are rejected.							
	Claim(s) is/are objected to.	ation and/or al	laatian raquiran	nont				
·	Claim(s) are subject to restri	cuon and/or er	iection requiren	ilent.				
	on Papers	=						
,	The specification is objected to by the drawing(s) filed on is/are		od or b\□ obje	acted to by the F	vaminer			
10)	Applicant may not request that any obje							
	Replacement drawing sheet(s) including					FR 1.121(d).		
11)	The oath or declaration is objected to	-						
Priority u	ınder 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachment(s)								
	ce of References Cited (PTO-892)		4) 🔲	Interview Summary	(PTO-413) Paper No	o(s)		
2) Notice	be of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449)		5) 🔲 (Notice of Informal P	atent Application (PT			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over c F'Geppert (US Pat. 3,861,231) in view of Alshareedah (US Pat. 4,677,870).

F'Geppert (US Pat. 3,861,231) discloses a gear wheel having surrounding strengthening rings connected to the gear wheel teeth, wherein each tooth is fixed like a theoretical beam between two extreme points in that two strengthening ring are shrunk around the gear wheel.

However F'Geppert (US Pat. 3,861,231) does not disclose the strengthening rings shaped on their insides in conformity with the gear wheel teeth, nor the shrinking process producing a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material.

Alshareedah (US Pat. 4,677,870) discloses a strengthening ring that is shaped on its inside to conform with the gear wheel teeth.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the inner conforming structure of Alshareedah (US Pat. 4,677,870) within F'Geppert (US Pat. 3,861,231), so as to enable increased tooth loading pressure to be withstood, as suggested by Alshareedah (US Pat. 4,677,870).

Also, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized a shrinking process producing a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Response to Arguments

Applicant's arguments filed 10/16/2003 have been fully considered but they are not persuasive.

Applicant argues that Alshareedah (US Pat. 4,677,870) does not suggest the motivation to "enable increasing tooth loading pressure to be withstood". Examiner disagrees, for as clearly stated within the abstract the purpose of the inside conforming strengthening ring is to "increase load carrying capacity to a gear".

Applicant also argues that the "general conditions" that would allow the invoking of In re Aller are not met by F'Geppert (US Pat. 3,861,231). Examiner disagrees, as the general condition of shrink fitting the strengthening ring of F'Geppert (US Pat. 3,861,231) is clearly set forth in column 3/lines 13-22, wherein F'Geppert (US Pat. 3,861,231) states that the strengthening ring "may be connected to the gear body by shrink fit procedures".

Furthermore, said aforementioned claim limitation as set forth in applicant's claims 2 and 5, is of a "product by process" nature, thus having little or no patentable weight.

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FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence <u>not</u> permitted by facsimile transmission, see MEP. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check <u>should not be</u> submitting by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MEP. 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and						
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	(Date)					
Typed or printed name of person signing this certificate:						
(Signature)						

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MEP. 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Colby Hansen whose telephone number is (703) 305-1036. The examiner can normally be reached on Monday through Thursday and every other Friday from 7:30 PM to 5:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci, can be reached on (703) 308-3668. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

Colby M. Hansen

Patent Examiner

12/19/03

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